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INFORMATION REPORT

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PREPARED AND DISSEMINATED BY

CENTRAL INTELLIGENCE AGENCY

COUNTRY

Hungary

SUBJECT

TO&E of a High Echelon Signal Regiment/
Rifle Division Signal Components/
Signal Equipment/Orion Plant

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SUPPLEMENT TO REPORT #

THIS IS UNEVALUATED INFORMATION

[This report is the result of a joint collection effort by the Air Force, the Army, the Navy and CIA and is disseminated in accordance with the provisions of NSCID #7.]

ARMY review completed. Release as

1. There are two or three high echelon signal regiments in Hungary under the direct control of the Ministry of Defense. [redacted] regiment located in the Petofi Kaserne on Budaorsi Street in Buda. Another similar regiment is located about 1 to 1½ km north of Vac. [redacted]
2. The main responsibility of these regiments is to maintain telephone and radio communications between the Ministry of Defense and the various army corps; also to fill in gaps in signal components in divisions.
3. Each regiment has approximately 1,000 to 3,200 men during peacetime. This number can be tripled during time of war.
4. There is a radio operators' battalion composed of a light, medium and a heavy radio company; a telephone switchboard and teletype battalion composed of wiremen, a teletype and telephone switchboard operators' company, and a wireman battalion composed of two light wire and two heavy wire companies. Only the regimental headquarters is responsible for radar operation. There are approximately 4 to 5 "Drava" type anti-aircraft artillery fire control radar sets with 20 to 25 signalmen. The radar area is considered off limits to the other soldiers.
5. The light radio company is responsible for establishing short range radio communications between division headquarters and divisional units. This company can also be used in reconnaissance activities when necessary. The TO&E is as follows:
 - a. 5 to 6 officers
 - b. 80 to 120 enlisted men
 - c. 20 R#20 radio sets
 - d. 0 to 12 ½-ton trucks
6. The personnel and equipment are equally divided into three platoons with the exception of the officers. There is only one officer to a platoon, and a commanding officer and a political officer in the company headquarters.

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7. The medium radio company, composed of three platoons, is responsible for maintaining radio communications between the division headquarters and the corps. The TO&E is as follows:
 - a. 5 to 6 officers; one officer per platoon, a commanding officer and a political officer
 - b. 80 to 120 enlisted men
 - c. 24 R#7 A, B, or L type radio sets (mixed)
 - d. 9 to 12 $\frac{1}{2}$ -ton trucks
8. The heavy radio company, composed of three platoons, establishes radio communications between the Ministry of Defense, corps and division headquarters. The TO&E is as follows:
 - a. 14 officers, with four officers in each platoon, a commanding officer and a political officer in the company headquarters.
 - b. 3 R#30 radio sets
 - c. 3 R#40 radio sets
 - d. 3 R#50 radio sets
 - e. 9 3-ton trucks (one radio in each truck)
 - f. 70 to 80 enlisted men
9. The telephone switchboard and teletype operators' battalion has a teletype company, a telephone switchboard operators' company and a wireman company. The men in the last two companies have the same qualifications and can be switched back and forth when so desired.
10. The teletype company, composed of three platoons, operates between regiment, division, corps and Ministry of Defense headquarters. The TO&E is as follows:
 - a. 5 to 6 officers; one officer for each platoon, and the commanding officer and a political officer in the company's headquarters
 - b. 80 to 100 enlisted men
 - c. 30 teletypes
11. The telephone switchboard operators' company, consisting of three platoons, is mainly responsible for maintaining telephone communications between corps and the Ministry of Defense. However, in some cases this can also be used between corps and division. The TO&E consists of:
 - a. 5 to 6 officers; one officer to each platoon in addition to the commanding officer and the political officer in the company's headquarters
 - b. 100 enlisted men
 - c. 3 K-100 type telephone switchboards
 - d. 3 K-10 and K-20 type switchboards (mixed)
 - e. 3 K-30 and K-50 type switchboards (mixed)
 - f. 6 3-ton trucks
12. The wireman company in the teletype and telephone switchboard battalion is mainly responsible for making wire connections between switchboards placed at short distances from each other (approximately 100 to 200 meters apart). The men in the wire company are also qualified telephone switchboard operators and can perform this job whenever necessary. The TO&E consists of:
 - a. 5 officers
 - b. 120 enlisted men
 - c. 30 to 40 kilometers of field wire
 - d. 40 to 50 field telephone sets
 - e. 12 to 15 $\frac{1}{2}$ -ton trucks
13. The wireman battalion, with approximately 600 men, is composed of two light wire and two heavy wire companies. The first two are responsible for establishing field wire lines between corps headquarters and various units within

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the corps. The TO&E of the light wire company is as follows:

- a. 5 to 6 officers (the commanding officer of the company, a political officer, and one officer for each platoon)
- b. 150 enlisted men
- c. 60 field telephone sets
- d. 50 to 80 kilometers of field wire (This can be tripled or quadrupled when necessary.)
- e. 12 to 15 $\frac{1}{2}$ -ton trucks

14. The two heavy wire companies have the task of laying two-pair wire cable lines from the division headquarters to corps and ministry. In some cases, however, these companies make cable connections between a division headquarters and a regiment. In addition, there is a close co-ordination and co-operation between these two companies and the two light wire companies when it comes to laying cable lines in parallel with the field wire lines. The TO&E of each of the heavy wire companies is as follows:

- a. 5 officers (the commanding officer, the political officer, and one officer for each platoon)
- b. 90 to 100 enlisted men
- c. 110 rolls of cable (each roll containing 200 meters of cable)
- d. 50 telephone sets (testing purposes, etc.)
- e. 9 trucks (3 ton)

15. The responsibility of each battalion is only the basic requirement; this could easily be changed, depending on the over-all situation in time of war. [See "On File" item, described at end of report, for detailed organizational breakdown of the signal regiment.]

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TO&E of Signal Components in a Rifle Division

16. Every rifle or artillery division in the Hungarian Army has a signal battalion organic to the division. [See TO&E Chart for details.] This battalion is responsible for maintaining radio and/or wire communications between the division headquarters and the headquarters of the various units under the division, as well as communications between division headquarters and headquarters of the division on the right flank. The signal battalion has 350 to 400 men in three companies. These are: a radio company, a telephone switchboard operators' company and a light wire company.

17. The radio company is composed of a light and two medium radio platoons. The light radio platoon maintains radiocommunications between the division headquarters and the various units within the division, with the exception of the rifle regiments. The TO&E of this platoon is as follows:

- a. 1 officer
- b. 36 to 40 enlisted men
- c. 12 R#20 radio sets
- d. 12 trucks

18. The two medium radio platoons maintain radiocommunications between division headquarters and the three rifle regiments, the artillery units within each rifle regiment, and the adjacent divisional headquarters. Each of the medium radio platoons has the following TO&E setup:

- a. 1 officer
- b. 36 to 40 enlisted men
- c. 9 R#7 (A, B, or L type radio sets)
- d. 9 3/4-ton trucks

19. The responsibility of the telephone switchboard operators' company is to maintain telephone communications within the division as well as with the adjacent units. This company is composed of three platoons with one officer in charge

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of 36 to 40 enlisted men. Equipment used consists of 6 K-10 or K-20 type switchboards and 6 3/4-ton trucks in each platoon.

20. The light wire company is mainly responsible for the laying of field telephone wire lines between division headquarters and division headquarters of the right flank division, as well as with its rifle regiments and artillery units within the rifle regiments. The following is the TO&E of the light wire company:
 - a. 5 to 6 officers (the commanding officer, the political officer, and one officer for each of the three platoons)
 - b. 120 enlisted men
 - c. 120 to 150 kilometers of field telephone wire
 - d. 9 to 10 3/4-ton trucks
21. Every rifle or artillery regiment has a signal company to maintain radio and/or telephone communications between regimental headquarters and the various units under the regiment. This company is composed of 5 officers, 120 enlisted men, 12 R#20 radios, 6 K-10 type telephone switchboards, 26 field telephone sets, 36 to 40 kilometers of field wire and 15 to 17 3/4-ton trucks, in three separate platoons. These are: a light radio platoon with one officer in charge of 36 to 40 men, 12 R#20 radio sets and 6 3/4-ton trucks; the telephone switchboard operators' platoon with one officer in charge of 36 to 40 enlisted men, 6 K-10 type telephone switchboards, 6 field telephone sets and 6 3/4-ton trucks; and the light wire platoon with one officer in charge of 36 to 40 enlisted men, 18 field telephone sets, 40 kilometers of field wire and 3 to 5 3/4-ton trucks.
22. The mission of the light radio platoon is to maintain radio communications between rifle regiment headquarters, rifle battalions, regimental artillery units and with the advanced rifle regiment on the right flank. The responsibilities of this platoon may vary according to the situation in time of war.
23. The telephone switchboard operators' platoon maintains telephone communications within the regiment and with the adjacent rifle regimental headquarters on the right flank. The light wire platoon installs field wire within the rifle regiment and the adjacent rifle regimental headquarters on the right flank.
24. Each rifle battalion in a regiment has a signal platoon separate from that of the signal company in the regiment. This platoon, which is composed of a light radio, a telephone switchboard and light wire squad, has one signal officer in charge of 40 to 50 enlisted men, 5 R#20 radios, 2 to 3 K-10 type telephone switchboards, 30 to 40 kilometers of wire, 25 to 30 field telephone sets and 12 3/4-ton trucks.
25. The light radio squad maintains radio communications between the battalion headquarters and the rifle companies as well as with the adjacent rifle battalion headquarters on the right flank. The switchboard operators' squad is responsible for maintaining telephone communications between battalion headquarters and the subordinate units. The light wire section lays field telephone wire between battalion headquarters and the rifle companies as well as the adjacent battalion headquarters on the right flank.
26. The following represents the technical, operational and physical characteristics of the R#20, R#50 and R#7 (A, B, and L types) military radio sets:

R#20 Radio

- a. Frequency coverage: 2,750 to 5,000 kilocycles in two bands
- b. Antenna power: 1.5 to 3 watt
- c. Range: 5 kilometers (approximately)
- d. Signal characteristics: A1, A2 and A3
- e. Modulation: amplitude
- f. Oscillator: tube, crystal-controlled

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- g. Power supply: battery supplying 135 volts, 120 volts, 90 volts, 75 volts and 1.4 volts for the filament heating
- h. Type antenna: umbrella type with five elements (star shape)
- i. Number of tubes: 10
- j. Type of tubes: transmitter - one 3A4, one DIL-101, one 1S5 receiver - five 1T4T, one 1R5T, one 1S5T
- k. Number of operators required to operate the set: two to four
- l. Evaluation of set by source: equipment not well liked because of unsatisfactory performance

R#50 Radio

- a. Power output: 200 watts and up
- b. Range: about 1,500 kilometers
- c. Type signal: A1, A2, A3
- d. Modulation: amplitude
- e. Power supply: generator
- f. Type antenna: horizontal

R#7 (A and B type) Radio

- a. Frequency coverage: 2,500 to 5,000 kilocycles
- b. Antenna power: 10 and 20 watt (switch used for change in power)
- c. Type signal: A1, A2, A3
- d. Range: 200 kilometers for CW, 80 kilometers for phone
- e. Modulation: amplitude
- f. Oscillator: tube with crystal control
- g. Tubes: three tubes for the transmitter and seven tubes for the receiver
- h. Power supply: generator, bicycle-type generating 320 volts for the anode and 6 volts for the heater (filament). This set can also operate with a 6-volt battery activating a vibrator. The generator used is of Hungarian manufacture (Beloianisz Factory).
- i. Type antenna used: "T" type [See sketch for details.]

R#7 (L type) Radio

- a. Frequency coverage: 7,000 to 15,000 kilocycles
- b. Antenna characteristics: vertical, telescopic 4 meters high round aluminum. Base diameter 5 cm with 2 cm diameter end. [See sketch for details.]
- c. Range: 300 kilometers for CW, 150 kilometers for phone
- d. Antenna power: 10 and 20 watt (switch used for change in power)
- e. Signal type: A1, A2, A3
- f. Modulation: amplitude
- g. Oscillator: tube with crystal control
- h. Tubes: three tubes for the transmitter and seven tubes for the receiver
- i. Power supply: generator, bicycle-type (same as for the R#7 A and B type)

Personalities

27. Lt. Col. Geza Paszka, is the commanding officer of the Petofi Kaserne, Budaorsi Street, Buda. 25X1
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28. Brig. Gen. Bela Berczelli, the present director of Orion, is the former signal chief of the Hungarian Army. 25X1
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29. Major Jeno Giczi, is the political officer of the signal battalion in the Petofi
Kasarny Budaorsi Street. Buda. [redacted]

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1. TO&E of an independent signal regiment under the direct control of the Ministry of Defense.
2. TO&E of the signal components in a rifle regiment and a rifle battalion.
3. TO&E of a signal battalion organic to a rifle division or an artillery division.
4. Antenna array for R#7 (A and B) type radio.
5. Antenna used with the R#7 (L) type radio.]

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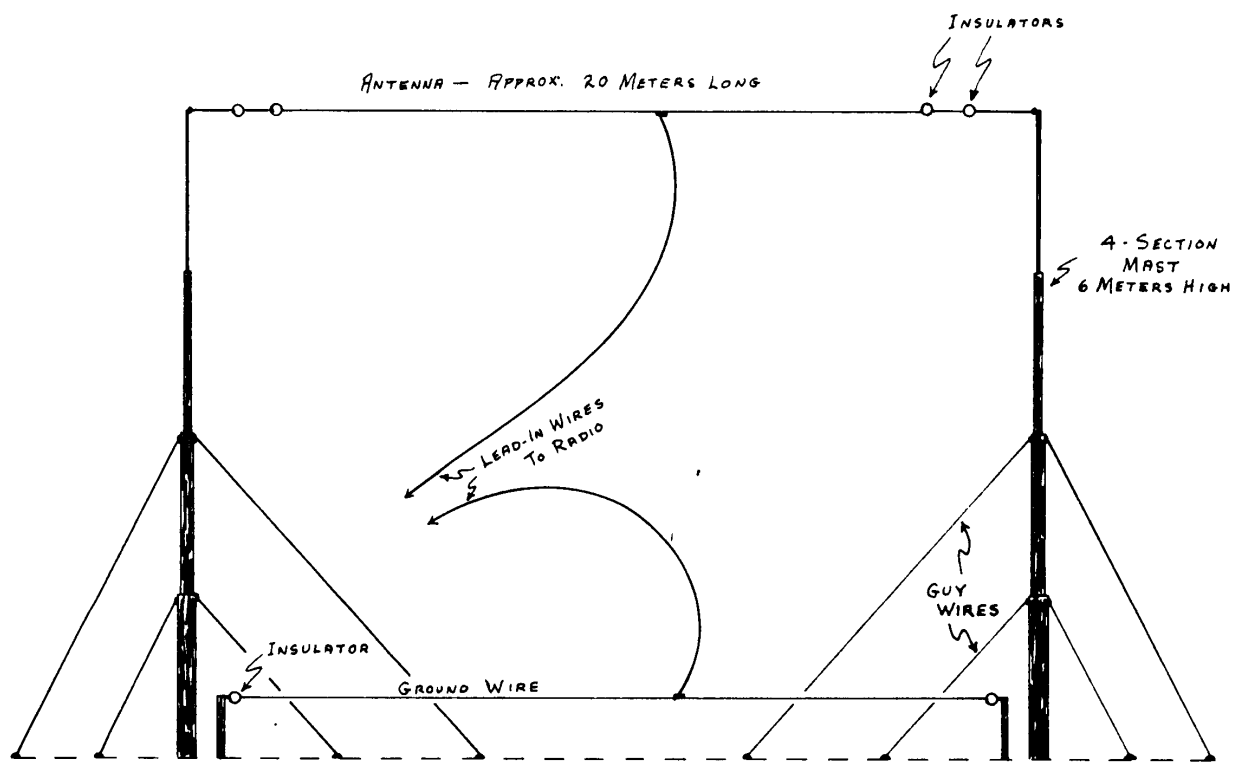
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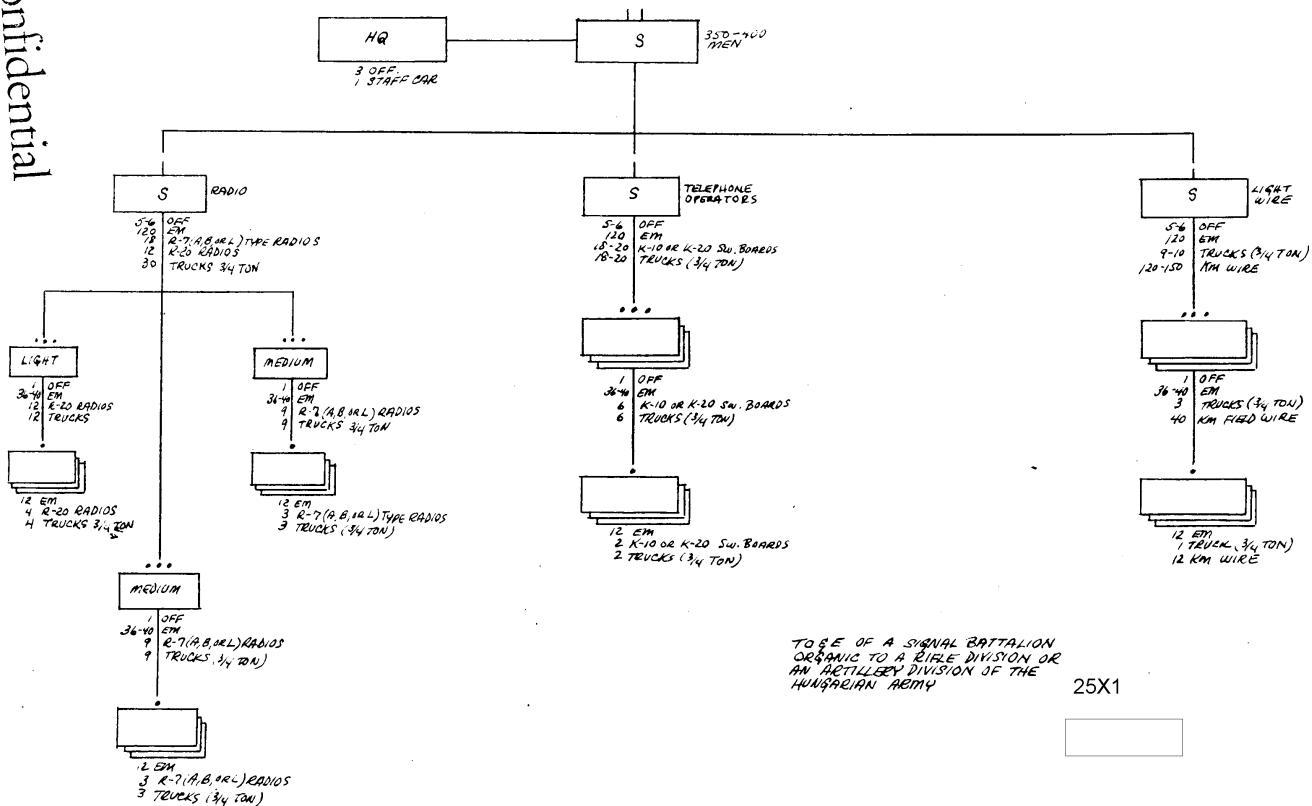
ANTENNA SET-UP FOR R#7 (A&B) TYPE RADIO

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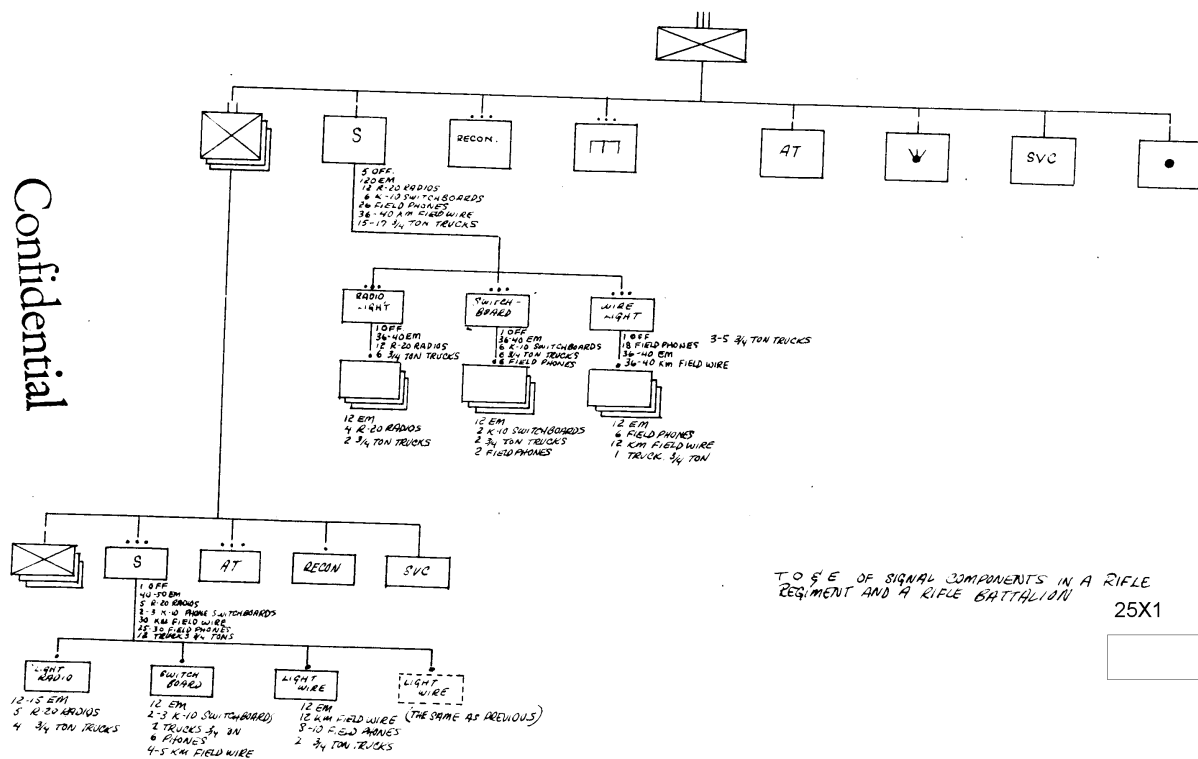
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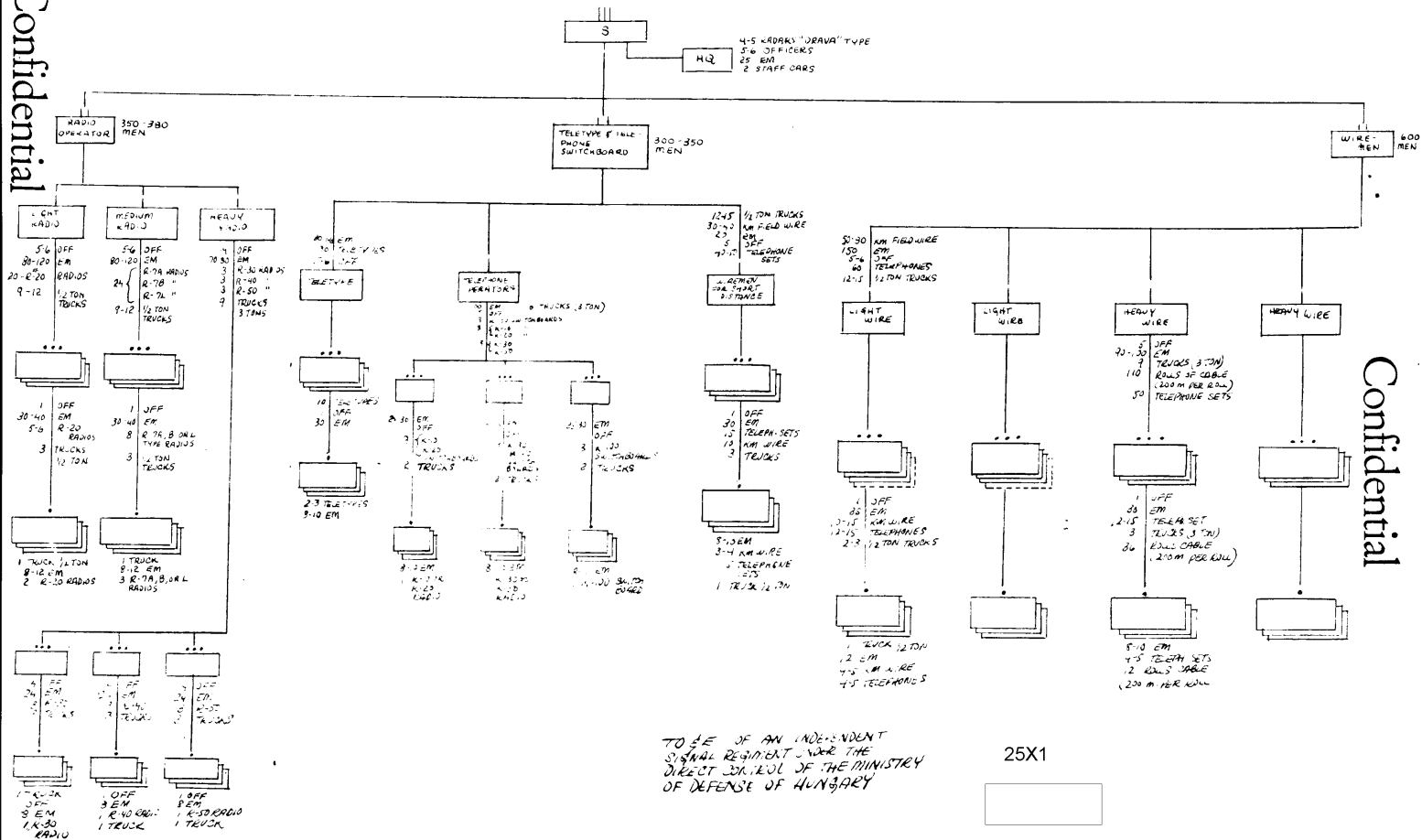


TO SEE OF SIGNAL COMPONENTS IN A RIFLE REGIMENT AND A RIFLE BATTALION

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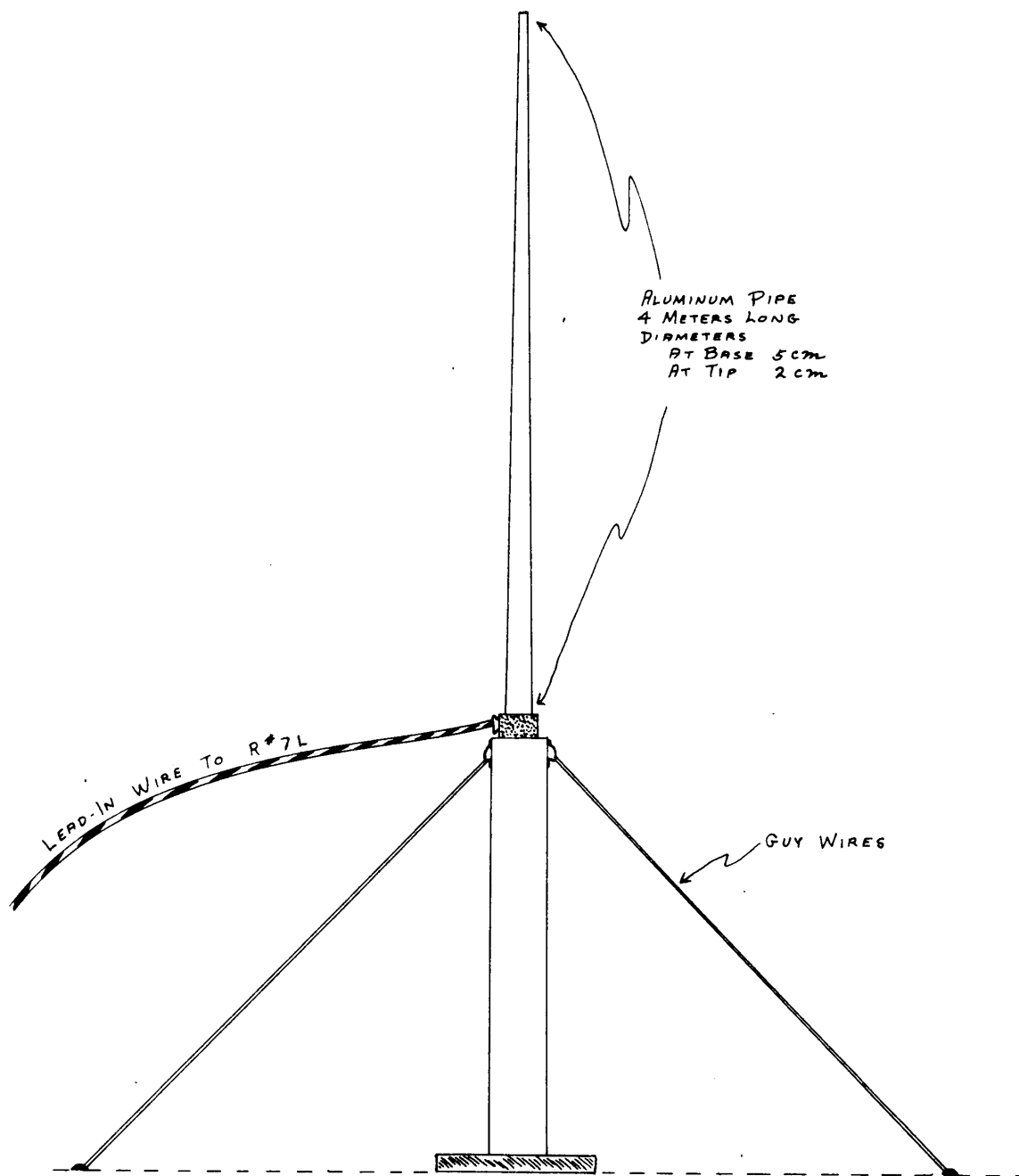
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ANTENNA USED WITH R#7 (L) TYPE RADIO

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